April 2004

Visit the Technical Standards Program Web Site at http://tis.eh.doe.gov/techstds/

Standards



Actions

DOE Technical Standards Program Document Status 03-26-2004

Activity Summary

In Conversion – 4

In Preparation - 37

Out for Comment - 21

Published in March - 2



5-Year Review Status

Revision in Progress – 13

Reaffirmation inProgress – 26

Cancellation Pending – 1

Cancellation in Progress – 3

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American Society of Mechanical Engineers (ASME) 7

American Society for Testing and Materials (ASTM)

American Nuclear Society (ANS) 12

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DOE Standards Actions

1.0 DOE Technical Standards Projects

The complete list of all DOE Technical Standards projects and their status is available on the Technical Standards Program TSP web page at http://tis.eh.doe.gov/techstds/. To access these standards, go to our web page, click on "DOE Technical Standards", then choose Projects, Approved Standards, Recently Approved Standards, or Drafts for Review, as appropriate, on the left frame of the page.

1.1 DOE Technical Standards Recently Sent for Coordination

Your Technical Standards Manager (TSM) will initiate requests for specific reviewers to comment on these drafts. The full text of these documents is available on the Web Site. If you wish to comment on these drafts, please notify your TSM. The list of TSMs can be found at http://tis.eh.doe.gov/techstds/genframe.html.

Hoisting and Rigging, Project No. SAFT-0093, contact Pat Finn, phone 301-903-9876, fax 301-903-6172 and e-mail Pat.Finn@eh.doe.gov. Comments due by May 7, 2004.

1.2 DOE Technical Standards Recently Published

The following DOE Technical Standards were recently published and posted on the TSP Web site:

- DOE-STD-1179-2004, Technical Training Functional Area Qualification Standard, February 2004
- DOE-STD-1180-2004, Construction Management Functional Area Qualification Standard, March 2004

Non-Government Standards Actions

2.0 Non-Government Standards

2.1 American National Standards Institute

American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Recent electronic copies are available on the ANSI Web Site at http://www.ansi.org/news_publications/periodicals/standards_action/standards_action.aspx?menuid=7.

The following listings are extracted from ANSI standards Action and are representative of NGS development activities that may be relevant to DOE operations. Refer to ANSI Standards Action for the complete list of changes and new publications, standards developing organizations, and additional information about submitting comments. Electronic delivery of selected documents is available through ANSI at http://webstore.ansi.org. Copies of the listed draft standards and the procedure for commenting on them may be obtained be obtained by contacting the standards developing organization.

2.1.1 American National Standards

2.1.1.1 American National Standards in Coordination

The following American National Standards are currently in coordination. Comment due dates are noted before each set.

Comment Deadline: May 3, 2004

AIIM (Association for Information and Image Management)

New Standards

BSR/AIIM MS35-200x, Recommended Practice for the Requirements and Characteristics of Original Documents that May Be Microfilmed (new standard)

New National Adoptions

 BSR/AIIM/ISO 9923-200x, Micrographics -Transparent A6 microfiche - Image arrangements (identical national adoption and revision of ANSI/AIIM MS5-1992(R 1998)) BSR/AIIM/ISO 12031-200x, Micrographics- Inspection of silver-gelatin microforms for evidence of deterioration (identical national adoption)

IEEE (ASC C63) (Institute of Electrical and Electronics Engineers)

Revision

BSR C63.5-200x, Radiated Emission Measurements in Electromagnetic Interference (EMI) Control-Calibration of Antennas (9 kHz to 40 GHz) (revision of ANSI C63.5-1998)

UL (Underwriters Laboratories, Inc.)

Revisions

- BSR/UL 6-200x, Electrical Rigid Metal Conduit Steel (Bulletin Dated 3-19-04) (revision of ANSI/UL 6-2002)
- BSR/UL 355-200x, Standard for Safety for Cord Reels (revision of ANSI/UL 355-1994)
- BSR/UL 498-200x, Standard for Attachment Plugs and Receptacles (Bulletin dated February 27, 2004) (revision of ANSI/UL 498-2002)
- BSR/UL 508C-200x, Standard for Safety for Power Conversion Equipment (revision of ANSI/UL 508C-2003)
- BSR/UL 651-200x, Schedule 40 and 80 Rigid PVC Conduit (Bulletin dated 3-19-04) (revision of ANSI/UL 651-2002)
- BSR/UL 797-200x, Electrical Metallic Tubing Steel (Bulletin dated 3-19-04) (revision of ANSI/UL 797-2002)
- BSR/UL 891-200x, Standard for Switchboards (revision of ANSI/UL 891-1992 (R2003))
- BSR/UL 1037-200x, Antitheft Alarms and Devices (Bulletin dated 3/19/04) (revision of ANSI/UL 1037-1994)
- BSR/UL 1739-200x, Standard for Safety for Pilot-Operated Pressure-Control Valves for Fire-Protection Service (revision of ANSI/UL 1739-1997)
- BSR/UL 60079-0-200x, Standard for Safety for Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements (revision of ANSI/UL 60079-0-2002)
- BSR/UL 60079-1-200x, Standard for Safety for Electrical Apparatus for Explosive Gas Atmospheres - Part 1: Flameproof Enclosures "d" (revision of ANSI/UL 60079-1-2002)

Comment Deadline: May 18, 2004

EIA (Electronic Industries Alliance)

Revisions

- BSR/EIA 364-10B-200x, Fluid Immersion Test Procedure for Electrical Connectors (revision of ANSI/EIA 364-10B-2002)
- BSR/EIA 364-20B-200x, Withstanding Voltage Test Procedure for Electrical Connectors, Sockets and Coaxial Contacts (revision of ANSI/EIA 364-20B-1999)

ESTA (ASC E1) (Entertainment Services and Technology Association)

New Standards

BSR E1.27-1-200x, Entertainment Technology - Standard for Portable Control Cables for Use with USITT DMX512/1990 and E1.11 (DMX512-A) Products (new standard)

Portable Control Cables for Use with USITT DMX512/1990 and E1.11 (DMX 512-A) Products (New Standard)

Draft Standards for Trial Use

The following Draft American National Standards for trial use of the ANSI Essential Requirements and relevant to DOE operations are available for trial use.

Trial use period: January 1, 2004 through January 1, 2007

ATIS (ASC T1) (Alliance for Telecommunications Industry Solutions)

ANSI J-STD-025-B-2004, Lawfully Authorized Electronic Surveillance (Release B) (trial use standard)

2.1.1.2 American National Standards for Final Action

The standards actions listed below have been approved by the ANSI Board of Standards Review (BSR) or by an ANSI Audited Designator, as applicable. These standards are representative of NGS development activities that may be relevant to DOE operations. The date following each standard indicates its date of approval.

API (American Petroleum Institute)

New National Adoptions

ANSI/API RP 17H-2002, Remotely Operated Vehicle (ROV) interfaces on subsea production systems (identical national adoption):3/11/2004

ASA (ASC S2) (Acoustical Society of America)

Revisions

ANSI S2.25-2004, Guide for the Measurement, Reporting, and Evaluation of Hull and Superstructure Vibration in Ships (revision of ANSI S2.25-2001): 3/10/2004

ASME (American Society of Mechanical Engineers)

Revisions

- ANSI/ASME PTC 1-2004, Performance Test Codes -General Instructions (revision of ANSI/ASME PTC 1-1999): 3/10/2004
- ANSI/ASME PTC 19.5-2004, Flow Measurement (revision 2) (revision of ANSI/ASME PTC 19.5-2002): 3/15/2004

AWWA (American Water Works Association)

Revisions

ANSI/AWWA C302-2004, Reinforced Concrete Pressure

Noncylinder Type (revision of ANSI/AWWA C302-1995): 3/11/2004

CPA (Composite Panel Association)

Revisions

- ANSI A135.4-2004, Basic Hardboard (revision of ANSI/AHA A135.4-1995): 3/11/2004
- ANSI A135.5-2004, Prefinished Hardboard Paneling (revision of ANSI/AHA A135.5-1995): 3/11/2004

MSS (Manufacturers Standardization Society)

New Standards

ANSI/MSS SP-69-2003, Pipe Hangers and Supports - Selection and Application (new standard): 3/11/2004

UL (Underwriters Laboratories, Inc.)

New National Adoptions

- ANSI/UL 60745-1-2004, Standard for Hand-Held Motor-Operated Electric Tools - Safety - Part 1: General Requirements (identical national adoption and revision of ANSI/UL 745 Series-1996): 3/10/2004
- ANSI/UL 60745-2-1-2004, Standard for Hand-Held Motor-Operated Electric Tools - Safety - Part 2: Particular Requirements for Drills and Impact Drills (identical national adoption and revision of ANSI/UL 745 Series-1996): 3/10/2004
- ANSI/UL 60745-2-5-2004, Standard for Handheld Motor-Operated Electric Tools - Safety - Part 2: Particular Requirements for Circular Saws (identical national adoption and revision of ANSI/UL 745 Series-1996): 3/10/2004
- ANSI/UL 60745-2-6-2004, Standard for Hand-Held Motor-Operated Electric Tools - Safety - Part 2: Particular Requirements for Hammers (identical national adoption and revision of ANSI/UL 745 Series-1996): 3/10/2004
- ANSI/UL 60745-2-14-2004, Standard for Hand-Held Motor-Operated Electric Tools - Safety - Part 2: Particular Requirements for Planers (identical national adoption and revision of ANSI/UL 745 Series-1996): 3/10/2004
- ANSI/UL 60745-2-17-2004, Standard for Hand-Held Motor-Operated Electric Tools - Safety - Part 2: Particular Requirements for Routers and Trimmers (identical national adoption and revision of ANSI/UL 745 Series-1996): 3/10/2004

Revisions

- ANSI/UL 5B-2004, Strut-Type Channel Raceways and Fittings (revision of ANSI/UL 5B-1998):3/12/2004
- ANSI/UL 790-2004, Standard for Safety for Tests for Fire Resistance of Roof Covering Materials (revision of ANSI/UL 790-1997): 3/10/2004
- ANSI/UL 1026-2004, Electric Household Cooking and Food Serving Appliances (revision of ANSI/UL 1026-2002): 3/9/2004

2.1.1.3 Project Initiation Notification System (PINS)

Following is a list of proposed new American National Standards or revisions to existing American National Standards that have been received from ANSI accredited standards developers that utilize the periodic maintenance option in connection with their standards.

AIIM (Association for Information and Image Management)

BSR/AIIM/ISO 6342-200x, Micrographics - Aperture Cards - Method of Measuring Thickness of Buildup Area (identical national adoption)

API (American Petroleum Institute)

BSR/API MPMS 5.9-200x, Vortex Shedding Flowmeters for Custody Transfer of Hydrocarbon Gases and Liquids (Draft Standard) (new standard)

ASTM (ASTM International)

- BSR/ASTM F1973-200x, Specification for Fieldassembled Anodeless Risers in Polyethylene (PE) Fuel Gas Distribution Systems (revision of ANSI/ASTM F1973-2002)
- BSR/ASTM WK4328-200x, Practice for Set-Up, Calibration, and Quality Control of Instruments Used for Radioactivity Measurements (new standard)
- BSR/ASTM WK4341-200x, Practice for Determining the Resistance of Single Glazed Annealed Architectural Flat Glass to Thermal Loadings (new standard)
- BSR/ASTM WK4391-200x, Test Method for the Rapid Determination of Corrosiveness to Copper from Petroleum Products using a Disposable Copper Foil Strip (new standard)

ITI (INCITS) (InterNational Committee for Information Technology Standards)

BSR INCITS PN-1677-200x, Information Technology - Fibre Channel Generic Services-5 (FC-GS-5) (new standard)

NEMA (ASC C29) (National Electrical Manufacturers Association)

- BSR C29.13-200x, Insulators Composite Distribution Deaded Type (revision of ANSI C29.13-2000)
- BSR/NEMA MW 1000-200x, Magnet Wire (revision of ANSI/NEMA MW 1000-2003)

TIA (Telecommunications Industry Association)

BSR J-STD-025-B-200x, Lawfully Authorized Electronic Surveillance (revision of ANSI/TIA J-STD-025-A-2003)

2.1.2 International Standards

2.1.2.1 International Draft Standards

This section lists proposed standards that the International Organization for Standardization (ISO) - the International Organization for Standardization. The proposals have received substantial support within the technical committees or subcommittees that developed them and are now being circulated to ISO members for comment and vote. Readers interested in reviewing and commenting on these documents should order copies from ANSI and provide comments by due date, following each listing.

FASTENERS (TC 2)

ISO/DIS 8992, Fasteners - General requirements for bolts, screws, studs and nuts - 6/13/2004

INTERNAL COMBUSTION ENGINES (TC 70)

- ISO/DIS 7967-1, Reciprocating internal combustion engines - Vocabulary of components and systems -Part 1: Structure and external covers- 6/10/2004
- ISO/DIS 7967-7, Reciprocating internal combustion engines - Vocabulary of components and systems -Part 7: Governing systems- 6/10/2004
- ISO/DIS 7967-8, Reciprocating internal combustion engines- Vocabulary of components and systems -Part 8: Starting systems- 6/10/2004

RUBBER AND RUBBER PRODUCTS (TC 45)

- ISO/DIS 37, Rubber, vulcanized or thermoplastic -Determination of tensile stress-strain properties -6/11/2004
- ISO/DIS 18517, Rubber, vulcanized or thermoplastic
 Hardness testing Introduction and guide -6/12/2004

TECHNICAL DRAWINGS, PRODUCT DEFINITION AND RELATED DOCUMENTATION (TC 10)

ISO/DIS 82045-5, Document management - Part 5: Application of metadata for the construction and facility management sector - 6/13/2004

ISO/IEC JTC 1, Information Technology

ISO/IEC DIS 21481, Information technology - Telecommunications and information exchange between systems - Near Field Communication Interface and Protocol -2 (NFCIP-2) - 6/12/2004

IEC Standards

- 20/687/FDIS, IEC 60811-4-1 Ed.2: Insulating and Sheathing Materials of Electric and Optical Cables -Common Test Methods - Part 4-1: Methods specific to polyethylene and polypropylene compounds- Resistance to environmental stress cracking - Measurement of the melt flow index - Carbon black and/or mineral filler content measurement in polyethylene by direct combustion - Measurement of carbon black content by thermogravimetric analysis (TGA) - Assessment of carbon black dispersion in polyethylene using a microscope, 05/07/2004
- 31H/173/FDIS, IEC 61241-0, Ed.1: Electrical apparatus for use in the presence of combustible dust -Part 0: - General requirements, 05/07/2004
- 32B/448/FDIS, IEC 60269-3-1, Ed.2: Low-voltage fuses - Part 3-1: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications) - Sections I to IV: Examples of types of standardized fuses, 05/07/2004
- 37A/157/FDIS, IEC 61643-22 Ed.1.0: Low-Voltage Surge Protective Devices - Part 22: Surge protection devices connected to telecommunications and signalling networks - Selection and application principles, 05/07/2004
- 49/657/FDIS, IEC 61837-4 Ed.1: Surface mounted piezoelectric devices for frequency control and selection - Standard outlines and terminal lead connections - Part 4: Hybrid enclosure outlines, 05/07/2004
- 59G/156/FDIS, IEC 60530-A2 Ed.1.0: Electrically operated food preparation appliances - Methods for measuring the performance, 05/07/2004
- 91/444/FDIS, IEC 62137, Ed.1: Environmental and endurance testing - Test methods for surface mount boards of area array type packages FBGA, BGA, FLGA, LGA, SON and QFN, 05/07/2004
- 10/583/FDIS, IEC 61221, Ed.2: Petroleum products and lubricants - Triaryl phosphate ester turbine control fluids (Category ISO-L-TCD) - Specifications, 05/14/2004
- 15E/232/FDIS, IEC 60085, Ed.3: Electrical insulation
 Thermal classification, 05/14/2004
- 34C/635/FDIS, D.C. or A.C. supplied electronic stepdown converters for filament lamps - Performance requirements, 05/14/2004
- 34C/636/FDIS, Lamp control gear Part 2-3: Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps, 05/14/2004
- 55/903A/FDIS, Amendment 2 to IEC 60851-5, Ed.3, Winding wires - Test methods - Part 5: Electrical properties, 04/30/2004
- 59G/156A/FDIS, IEC 60619-A2 Ed.1.0: Electrically operated food preparation appliances - Methods for measuring the performance, 05/14/2004

2.1. 2. 2 Newly Published ISO Standards

This section contains new and revised standards recently approved and promulgated by ISO. Most are available at the ANSI Electronic Standards Store (ESS) at www.ansi.org.

AIR QUALITY (TC 146)

ISO 16000-6:2004, Indoor air - Part 6: Determination of volatile organic compounds in indoor and test chamber air by active sampling on Tenax TA sorbent, thermal desorption and gas chromatography using MS/FID

CHAINS AND CHAIN WHEELS FOR POWER TRANSMISSION AND CONVEYORS (TC 100)

ISO 606:2004, Short-pitch transmission precision roller and bush chains, attachments and associated chain sprockets

EARTH-MOVING MACHINERY (TC 127)

- ISO 12510:2004, Earth-moving machinery Operation and maintenance - Maintainability guidelines
- ISO 14401-1:2004, Earth-moving machinery Field of vision of surveillance and rear-view mirrors - Part 1: Test methods,

FASTENERS (TC 2)

ISO 21269:2004, Hexagon socket head cap screws with metric fine pitch thread

FERROUS METAL PIPES AND METALLIC FITTINGS (TC 5)

ISO 15465:2004, Pipework - Stripwound metal hoses and hose assemblies

GLASS CONTAINERS (TC 63)

- ISO 7458:2004, Glass containers Internal pressure resistance - Test methods
- ISO 7459:2004, Glass containers Thermal shock resistance and thermal shock endurance Test methods,
- ISO 8113:2004, Glass containers Resistance to vertical load Test method

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

ISO 15531-1:2004, Industrial automation systems and integration Industrial manufacturing management data - Part 1: General overview

INTERNAL COMBUSTION ENGINES (TC 70)

ISO 14314:2004, Reciprocal internal combustion engines - Recoil starting equipment - General safety requirements

MACHINE TOOLS (TC 39)

ISO 13041-1:2004, Test conditions for numerically controlled turning machines and turning centres - Part 1: Geometric tests for machines with a horizontal work holding spindle

MECHANICAL TESTING OF METALS (TC 164)

ISO 7438:1985, Metallic materials - Bend test

MICROBEAM ANALYSIS (TC 202)

ISO 16700:2004, Microbeam analysis - Scanning electron microscopy - Guidelines for calibrating image magnification

NON-DESTRUCTIVE TESTING (TC 135)

ISO 18175:2004, Non-destructive testing - Evaluating performance characteristics of ultrasonic pulse-echo testing systems without the use of electronic measurement instruments

NUCLEAR ENERGY (TC 85)

ISO 17874-1:2004, Remote handling devices for Part 1: General requirements

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO 10110-17:2004, Optics and photonics - Preparation of drawings for optical elements and systems - Part 17: Laser irradiation damage threshold

PETROLEUM PRODUCTS AND LUBRICANTS (TC 28)

- ISO 20844:2004, Petroleum and related products Determination of the shear stability of polymer-containing oils using a diesel injector nozzle
- ISO 20846:2004, Petroleum products Determination of sulfur content of automotive fuels - Ultraviolet fluorescence method
- ISO 20847:2004, Petroleum products Determination of sulfur content of automotive fuels - Energy-dispersive Xray fluorescence spectrometry
- ISO 20884:2004, Petroleum products Determination of sulfur content of automotive fuels - Wavelengthdispersive X-ray fluorescence spectrometry

ROAD VEHICLES (TC 22)

- ISO 6519:2004, Diesel engines Fuel injection pumps -Tapers for shaft ends and hubs
- ISO 15765-1:2004, Road vehicles Diagnostics on Controller Area Networks (CAN) Part 1: General information
- ISO 16845:2004, Road vehicles Controller area network (CAN) - Conformance test plan

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO 11344:2004, Rubber, raw synthetic - Determination of themolecular-mass distribution of solution polymers by gel permeation chromatography

SAFETY OF MACHINERY (TC 199)

ISO 14122-4:2004, Safety of machinery - Permanent means of access to machinery - Part 4: Fixed ladders

SOIL QUALITY (TC 190)

ISO 16133:2004, Soil quality - Guidance on the establishment and maintenance of monitoring programmes

STEEL (TC 17)

ISO 6930-2:2004, High yield strength steel plates and wide flats for cold forming - Part 2: Delivery condition for normalized, normalized rolled and as-rolled steels

WELDING AND ALLIED PROCESSES (TC 44)

- ISO 18273:2004, Welding consumables Wire electrodes, wires and rods for welding of aluminium and aluminium alloys - Classification
- ISO 18274:2004, Welding consumables Wire and strip electrodes, wires and rods for arc welding of nickel and nickel alloys - Classification

ISO Technical Reports

ROAD VEHICLES (TC 22)

ISO/TR 12350:2004, Road vehicles - Injury risk curves for evaluation of occupant protection in side impact, ISO Technical Specifications

ISO/IEC JTC 1, Information Technology

- ISO/IEC 14772-2:2004, Information technology -Computer graphics and image processing - The Virtual Reality Modeling Language (VRML) - Part 2: External authoring interface (EAI)
- ISO/IEC 15948:2004, Information technology -Computer graphics and image processing - Portable Network Graphics (PNG): Functional specification
- ISO/IEC 21000-5:2004, Information technology -Multimedia framework (MPEG-21) - Part 5: Rights Expression Language

2.2 American Society of Mechanical Engineers (ASME)

The following listings are extracted from the ASME list of recently published standards on the ASME web site at http://www.asme.org/codes/newdocuments.html and are representative of NGS development activities that may be relevant to DOE operations. Refer to the ASME web site for the complete list of changes and new publications, standards developing organizations, and additional information about submitting comments.

2.2.1 ASME Standards in Coordination

The following ASME standards are currently in coordination. Comment due dates are noted after each listing.

- ANS: ASME A112.4.14 20XX, Manually Operated, Quarter-Turn Shutoff Valves for Use in Plumbing Systems (new American National Standard), 05/04/04
- ANS: ASME A112.6.9 20XX, Standard for Siphonic Roof Drainage Systems (new American National Standard), 05/25/04
- ANS: ASME B30.5 20XX, Mobile and Locomotive Cranes (revision to current !merican National Standard), 04/12/04
- ANS: ASME B31.9 20XX, Building Services Piping (revision to current American National Standard), 05/04/04
- ANS: ASME CSD-1 20XX, Controls and Safety Devices for Automatically Fired Boilers (revision to current American National Standard), 04/06/04
- ANS: ASME MFC-3M-1 20XX, Measurement of Fluid Flow in Pipes Using Orifice, Nozzle, and Venturi - Part 1 - General (new American National Standard), 04/13/04
- ANS: ASME MFC-3M-2 20XX, Measurement of Fluid Flow in Pipes Using Orifice, Nozzle, and Venturi - Part 2 - Orifice Plates (new American National Standard), 04/13/04
- ANS): ASME MFC-3M-3 20XX, Measurment of Fluid Flow in Pipes USing Orifice, Nozzle, and Venturi - Part 3 - Nozzles and Venturi Nozzles (new American National Standard), 04/13/04
- ANS: ASME MFC-3M-4 20XX, Measurement of Fluid Flow in Pipes USing Orifice, Nozzle, and Venturi - Part 4 - Venturi Meters (new American National Standard), 04/13/04
- ANS: ASME PTC 6.2 20XX, STEAM TURBINES IN COMBINED CYCLES (new American National Standard), 05/04/04
- ANS: ASME RTP-1d 20XX, Reinforced Thermoset Plastic Corrosion Resistant Equipment (revision to current American National Standard), 04/12/04

2.2.2 New ASME Standards Published

The following ASME standards were recently approved and published. Go to the ASME web site for information on ordering copies.

- A90.1-2003: Safety Standard for Belt Manlifts
- A112.6.4-2003: Roof, Deck, and Balcony Drains
- A112.18.6-2003: Flexible Water Connectors
- B107.37-2003: Pliers- Wire Cutters/Strippers
- OM-S/G-2003: Standards and Guides for Operation and Maintenance of Nuclear Power Plants
- PVHO-2-2003: Safety Standard for Pressure Vessels for Human Occupancy in-Service Guidelines for PVHO Acrylic Windows

Y14.5M-1994 and Y14.41-2003 Package Containing:

- Y14.5M-1994 Dimensioning and Tolerancing
- Y14.41-2003 Digital Product Definition Data Practices

Y14.41 - 2003 Referenced Standards Package containing:

- Y14.1-1995 Decimal Inch Drawing Sheet Size and Format
- Y14.1M-1995 Metric Drawing Sheet Size and Format
- Y14.2M-1992 Line Conventions and Lettering
- Y14.3M-1994 Multiview and Sectional View Drawings
- Y14.4M-1989 Pictorial Drawing
- Y14.5M-1994 Dimensioning and Tolerancing
- Y14.8M-1996 Castings and Forgings
- Y14.35M-1997 Revision of Engineering Drawings and Associated Documents
- Y14.38-1999 Abbreviations and Acronyms
- Y14.100-2000 Engineering Drawing Practices

2.2.3 Revised ASME Standards Published

The following ASME standards were recently approved and published. Go to the ASME web site for information on ordering copies.

- A112.14.1-2003: Backwater Valves
- B16.5-2003: Pipe Flanges and Flanged Fittings: NPS ½ through NPS 24
- B16.9-2003: Factory-Made Wrought Buttwelding Fittings
- B20.1-2003 Safety Standard for Conveyors and Related Equipment
- B30.9-2003: Slings
- B30.20-2003: Below-the-Hook Lifting Devices
- B31.8-2003: Gas Transmission and Distribution Piping Systems
- B40.200a-2003: Addenda to ASME B40.200-201, Thermometers, Direct Reading and Remote Reading
- B89.1.6-2002: Measurement of Plain Internal Diameters for Use as Master Rings or Ring Gages
- MFC-1M-2003: Glossary of Terms Used in the Measurement of Fluid Flow in Pipes
- PTC 23-2003: Atmospheric Water Cooling Equipment

- RA-Sa-2003: Addenda to ASME RA-S-2002, Standard for Probabilistic Risk Assessment for Nuclear Power Applications
- RTP-1c-2003: Addenda to ASME RTP-1-2000, Reinforced Thermoset Plastic Corrosion Resistant Equipment
- STS-1a-2003: Addenda to ASME STS-1-2000, Steel Stacks

2.2.4 Other

The following Boiler Pressure Vessel Code (BPVC) supplements were recently issued.

- BPVC: Supplement No.10 to the 2001 Edition of Code Cases, Boiler and Pressure Vessels
- BPVC: Supplement No.10 to the 2001 Edition of Code Cases, Nuclear Components
- BPVC: Supplement No.11 to the 2001 Edition of Code Cases, Boiler and Pressure Vessels
- BPVC: Supplement No.11 to the 2001 Edition of Code Cases, Nuclear Components

2.3 ASTM

The following list of approved standards actions was extracted from the ASTM February Standards Action, which can be found on the ASTM web site at

http://www.astm.org/cgi-

bin/SoftCart.exe/SNEWS/MARCH_2004/intl_mar04.html?L +mystore+rclk8302. The list is representative of NGS development activities that may be relevant to DOE operations. Refer to the ASTM web site for the complete list of new publications.

2.3.1 ASTM A Standards

A01 on Steel, Stainless Steel and Related Alloys

Revision

Volume 01.04, 2005

A 6/A 6M-03c, Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes, and Sheet Piling

Volume 01.06, 2005

A 630-03, Test Methods for Determination of Tin Coating Weights for Electrolytic Tin Plate

A04 on Iron Castings

Revision

Volume 01.02, 2003

A 746-03, Specification for Ductile Iron Gravity Sewer Pipe

A05 on Metallic-Coated Iron and Steel Products

New Standard

Volume 01.06.2005

A 1030/A 1030M-03, Practice for Measuring Flatness Characteristics of Coated Sheet Products

Revision

Volume 01.06, 2005

- A 308/A 308M-03, Specification for Steel Sheet, Terne Lead-tin Alloy Coated by Hot-Dip Process
- A-926-03, Test Method for Comparing the Abrasion Resistance of Coating Materials for Corrugated Metal Pipe

2.3.2 ASTM B Standards

None

2.3.3 ASTM C Standards

C01 on Cement

Revision

Volume 04.01, 2004

- C 230/C 230M-03, Specification for Flow Table for Use in Tests of Hydraulic Cement
- C 807-03a, Test Method for Time of Setting of Hydraulic Cement Mortar by Modified Vicat Needle

CO3 on Chemical-Resistant Nonmetallic Materials

Revision

Volume 04.05, 2003

- C 307-03, Test Method for Tensile Strength of Chemical-Resistant Mortar, Grouts, and Monolithic Surfacings
- C 466-03, Specification for Chemically Setting Silicate and Silica Chemical-Resistant Mortars

C08 on Refractories

Revision

Volume 15.01, 2003

C 544-03 (Includes change to title), Test Method for Hydration of Dead Burned Magnesite or Periclase Grain

C09 on Concrete and Concrete Aggregates

Revision

Volume 04.02, 2003

- C 330-03a, Specification for Lightweight Aggregates for Structural Concrete
- C 1077-03a, Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation

Volume 04.02, 2004

C 331-03a, Specification for Lightweight Aggregates for Concrete Masonry Units

C12 on Mortars and Grouts for Unit Masonry

Revision

Volume 04.05, 2003

C 1180-03a, Terminology of Mortar and Grout for Unit Masonry

C13 on Concrete Pipe

Revision

Volume 04.05, 2004

- C 118-03, Specification for Concrete Pipe for Irrigation or Drainage
- C 118M-03, Specification for Concrete Pipe for Irrigation or Drainage [Metric]

C16 on Thermal Insulation

Revision

Volume 04.06, 2003

- C 755-03, Practice for Selection of Water Vapor Retarders for Thermal Insulation
- C 795-03, Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel

Volume 04.06, 2004

C 1289-03, Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board

C18 on Dimension Stone

Revision

Volume 04.07, 2004

- C 503-03, Specification for Marble Dimension Stone Exterior
- C 568-03, Specification for Limestone Dimension Stone
- C 615-03, Specification for Granite Dimension Stone
- C 616-03, Specification for Quartz-Based Dimension Stone
- C 1526-03, Specification for Serpentine Dimension Stone
- C 1527-03, Specification for Travertine Dimension Stone

C21 on Ceramic Whitewares and Related Products

Revision

Volume 15.02, 2004

C 326-03, Test Method for Drying and Firing Shrinkages of Ceramic Whiteware Clays

C24 on Building Seals and Sealants

Revision

Volume 04.07, 2003

C 1394-03, Guide for in-situ Structural Silicone glazing

Evaluation

C 1440-03, Specification for Thermoplastic Elastomeric TPE Gasket Materials for Drain, Waste, and Vent Dwv, Sewer, Sanitary and Storm Plumbing Systems

C28 on Advanced Ceramics

Revision

Volume 15.01, 2003

C 1327-03, Test Method for Vickers Indentation Hardness of Advanced Ceramics

2.3.4 ASTM D Standards

D04 on Road and Paving Materials

Revision

Volume 04.03, 2003

D 6752-03, Test Method for Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using Automatic Vacuum Sealing Method

Volume 04.03, 2004

- D 448-03a, Classification for Sizes of Aggregate for Road and Bridge Construction
- D 2041-03a, Test Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
- D 3666-03a, Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials
- D 4383-03, Specification for Plowable, Raised Retroreflective Payement Markers

D05 on Coal and Coke

Revision

Volume 05.06, 2003

D 6518-03, Practice for Bias Testing a Mechanical Coal Sampling System

D07 on Wood

Revision

Volume 04.10, 2004

D 2899-03, Practice for Establishing Allowable Stresses for Round Timber Piles

D08 on Roofing and Waterproofing

Revision

Volume 04.04, 2004

- D 173-03, Specification for Bitumen-Saturated Cotton Fabrics Used in Roofing and Waterproofing
- D 228-03a, Test Methods for Sampling, Testing, and Analysis of Asphalt Roll Roofing, Cap Sheets, and Shingles Used in Roofing and Waterproofing

D 6381-03b, Test Method for Measurement of Asphalt Shingle Mechanical Uplift Resistance

D11 on Rubber

Revision

Volume 09.01, 2003

- D 429-03, Test Methods for Rubber Property Adhesion to Rigid Substrates
- D 6746-03, Test Method for Raw Rubber or Unvulcanized Compounds- Determination of Tensile Green Strength

D14 on Adhesives

Revision

Volume 15.06, 2004

D 5363-03, Specification for Anaerobic Single-Component Adhesives (AN)

D15 on Engine Coolants

Revision

Volume 15.05, 2004

- D 6471-03, Specification for Recycled Prediluted Aqueous Glycol Base Engine Coolant 50 Volume Minimum for Automobile and Light-Duty Service
- D 6472-03, Specification for Recycled Glycol Base Engine Coolant Concentrate for Automobile and Light-Duty Service

D19 on Water

Revision

Volume 11.01, 2003

D 4638-03, Guide for Preparation of Biological Samples for Inorganic Chemical Analysis

D28 on Activated Carbon

Revision

Volume 15.01, 2003

- D 6586-03, Practice for the Prediction of Contaminant Adsorption on GAC in Aqueous Systems Using Rapid Small-Scale Column Tests
- D 6646-03, Test Method for Determination of the Accelerated Hydrogen Sulfide Breakthrough Capacity of Granular and Pelletized Activated Carbon

Revision

Volume 15.03, 2004

C 365-03, Test Method for Flatwise Compressive Properties of Sandwich Cores

D34 on Waste Management

New Standard

Volume 11.04, 2004

- D 6956-03, Guide for Demonstrating and Assessing Whether a Chemical Analytical Measurement System Provides Analytical Results Consistent with Their Intended Use
- D 6982-03, Practice for Detecting Hot Spots and Buried Objects Using Point-Net Grid Search Patterns

Revision

Volume 11.04, 2004

- D 4646-03, Test Method for 24-H Batch-Type Measurement of Contaminant Sorption by Soils and Sediments
- D 5285-03, Test Method for 24-Hour Batch-Type Measurement of Volatile Organic Sorption by Soils and Sediments
- D 5495-03, Practice for Sampling with a Composite Liquid Waste Sampler Coliwasa

D35 on Geosynthetics

New Standard

Volume 04.09, 2003

D 7005-03, Test Method for Determining the Bond Strength Ply Adhesion of Geocomposites

2.3.5 ASTM E Standards

E01 on Analytical Chemistry for Metals, Ores and Related Materials

Revision

Volume 03.05, 2003

- E 135-03d, Terminology Relating to Analytical Chemistry for Metals, Ores, and Related Materials
- E 1019-03, Test Methods for Determination of Carbon, Sulphur, Nitrogen and oxygen in Steel and in iron, Alloys
- E 1097-03, Guide for Direct Current Plasma Emission Spectrometry Analysis

Volume 03.06, 2003

E 1832-03 (Includes Change to Title), Practice for Describing and Specifying a Direct Current Plasma Atomic Emission Spectrometer

E04 on Metallography

Revision

Volume 03.01, 2000

E 1920-03, Guide for Metallographic Preparation of Thermal Sprayed Coatings

E05 on Fire Standards

Revision

Volume 04.07, 2003

E 603-03, Guide for Room Fire Experiments

Volume 04.07, 2004

E 1623-03a, Test Method for Determination of Fire and Thermal Parameters of Materials, Products, and Systems Using an Intermediate Scale Calorimeter (ICAL)

E06 on Performance of Buildings

Revision

Volume 04.12, 2000

E 2129-03, Practice for Data Collection for Sustainability Assessment of Building Products

E08 on Fatigue and Fracture

Revision

Volume 03.01, 2003

E 1921-03, Test Method for Determination of Reference Temperature, To', for Ferritic Steels in the Transition Range

E18 on Sensory Evaluation of Materials and Products

Revision

Volume 15.08, 2004

E 253-03a, Terminology Relating to Sensory Evaluation of Materials and Products

E20 on Temperature Measurement

Revision

Volume 14.03, 2004

E 1-03a, Specification for ASTM Liquid-In-Glass Thermometers

E28 on Mechanical Testing

Revision

Volume 03.01, 2004

E 21-03a, Test Methods for Elevated Temperature Tension Tests of Metallic Materials

E33 on Environmental Acoustics

Revision

Volume 04.06, 2003

C 522-03, Test Method for Airflow Resistance of Acoustical Materials

E34 on Occupational Health and Safety

Revision

Volume 11.03, 2003

E 2148-03, Guide for Using Documents Related to Metalworking or Metal Removal Fluid Health and Safety

2.3.6 ASTM F Standards

F05 on Business Imaging Products

New Standard

Volume 15.09, 2004

F 2296-03, Practice for Determining the Adhesion of Lamination Films to Prints Utilizing Mechanical Stress: Four Different Test Methods —Score/Tape, Cross Hatch, X-Cut, and Crease-Folding

F06 on Resilient Floor Coverings

Revision

Volume 15.04, 2004

F 1869-03, Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride

F09 on Tires

Revision

Volume 09.02, 2004

F 1364-03, Practice for Use of a Calibration Device to Demonstrate the Inspection Capability of an Interferometric Laser Imaging Nondestructive Tire Inspection
System

F17 on Plastic Piping Systems

Revision

Volume 08.04, 2003

F 1807-03, Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-Linked Polyethylene (PEX) Tubing

F18 on Electrical Protective Equipment for Workers

New Standard

Volume 10.03, 2004

F 2321-03, Specification for Flexible Insulated Temporary Bypass Jumpers

Revision

Volume 10.03, 2004

- F 1116-03, Test Method for Determining Dielectric Strength of Dielectric Footwear
- F 1117-03, Specification for Dielectric Footwear

F20 on Hazardous Substances and Oil Spill Response

New Standard

Volume 11.04, 2004

F 2327-03, Guide for Selection of Airborne Remote Sensing Systems for Detection and Monitoring of Oil on Water

2.3.7 ASTM G Standards

None

2.4 American Nuclear Society (ANS)

The following list of approved standards actions was extracted from the ANS list of "What's New" in Standards. The complete list can be found at http://www.ans.org/standards/new/. The list is representative of NGS development activities that may be relevant to DOE operations.

2.4.1 ANS Project Initiations

- BSR/ANS-10.4-200x, Standard for the Verification and Validation of Scientific and Engineering Computer Programs for the Nuclear Industry (revision of ANS -10.4-1987)
- BSR/ANS-51.1-200x, Nuclear Safety Criteria for the Design of Stationary Pressurized Water Reactor Plants (revision of ANSI/ANS -51.1-1983; R1986; R1988)
- BSR/ANS-52.1-200x, Nuclear Safety Criteria for the Design of Stationary Boiling Water Reactor Plants (revision of ANSI/ANS -52.1-1983; R1988)
- BSR/ANS-58.3-200x, Physical Protection for Nuclear Safety Related Systems and Components (revision of ANSI/ANS-58.3-1992; R1998)
- BSR/ANS-58.23-200x, Standard on Methodology for Fire PRA (new standard)

2.4.2 ANS Standards Approved

- ANSI/ANS-2.2-2002, Earthquake Instrumentation Criteria for Nuclear Power Plants (revision of ANSI/ANS-2.2-1988)- Newly Published
- ANSI/ANS-2.10-2003, Criteria for the Handling and Initial Evaluation of Records from Nuclear Power Plant Seismic Instrumentation - Published in mid-2003
- ANSI/ANS-2.23-2002, Nuclear Plant Response to an Earthquake (new standard) - Newly Published
- ANSI/ANS-8.3-1997; R2002, Criticality Accident Alarm System (reaffirmation of ANSI/ANS-8.3-1997) - Approved 6/12/2003
- ANSI/ANS-19.1-2002, Nuclear Data Sets for Reactor Design Calculations (revision of ANSI/ANS-19.1-1983; R1989) - Published in mid-2003
- ANSI/ANS-19.3.4-2002, The Determination of Thermal Energy Deposition Rates in Nuclear Reactors (revision of ANSI/ANS-19.3.4-1976; R1983; R1989) Published in mid-2003
- ANSI/ANS-56.8-2002, Containment System Leakage Testing Requirements (revision of ANSI/ANS-56.8-1994) - Newly Published

 ANSI/ANS-58.21, External Events in PRA Methodology (new standard) - Approved 3/3/2003

2.5 National Fire Protection Association (NFPA)

The following list of approved standards actions was extracted from the NFPA News at http://www.nfpa.org.

The list is representative of NGS development activities that may be relevant to DOE operations. See the web site for a complete list of standards actions as well as the calls for committee members and list of committees soliciting proposals.

NFPA Standards for Comment

The following Tentative Interim Amendments (TIAs) have been proposed to the NFPA. They are being published for public review. Comment due date follows each entry.

- NFPA 70-2002, National Electrical Code®, TIA Log No. 771- 04/01/04
- NFPA 70E-2004, Standard for Electrical Safety Requirements for Employee Workplaces, TIA Log No. 777-04/01/04
- NFPA 70E-2004, Standard for Electrical Safety Requirements for Employee Workplaces, TIA Log No. 778-04/01/04
- NFPA 70E-2004, Standard for Electrical Safety Requirements for Employee Workplaces, TIA Log No. 779-04/01/04
- NFPA 70E-2004, Standard for Electrical Safety Requirements for Employee Workplaces, TIA Log No. 780-04/01/04
- NFPA 70E-2004, Standard for Electrical Safety Requirements for Employee Workplaces, TIA Log No. 781- 04/01/04
- NFPA 70E-2004, Standard for Electrical Safety Requirements for Employee Workplaces, TIA Log No. 782-04/01/04



Standards Actions

Publishing Organization: EH-22, Office of Nuclear and Facility Safety Policy, Department of Energy, 1000 Independence Avenue, Washington, D.C. 20585-0270

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Publication & Distribution: The Standards Forum and The Standards Actions are electronic newsletters available from the TSP Web Site (http://tis.eh.doe.gov/techstds/). To update your mailing list and/or e-mail addresses, please email us at **TechStdPgm@eh.doe.gov** or call Norm Schwartz at 301-903-2996.

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